

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Hagan P. Bayley, et al.

Serial No.: 09/781,697

Filed: February 12, 2001

For: BIOSENSOR COMPOSITIONS AND

METHODS OF USE

Group Art Unit: 1641

Examiner: M. Tran

Atty. Dkt. No.: 12740.0249.NPUS01

RECEIVED

AUG 1 9 2004

INFORMATION DISCLOSURE STATEMENT

OFFICE OF PETITIONS

Commissioner for Patents P.O. Box 1450 Alexandria VA, 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents are not included because this request is being transmitted by fax. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) will be provided by mail at a later date.

In accordance with 37 C.F.R §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

10:32

The Commissioner is hereby authorized to deduct the fee set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 from Deposit Account No. 01-2508/12740.0249.NPUS01. The Commissioner is authorized to deduct any additional fees required, or credit any overpayment to Deposit Account No. 01-2508/12740.0249.NPUS01.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,

Raymond Reese Reg. No. 47,891

Patent Agent for Assignee

THE TEXAS A&M UNIVERSITY SYSTEM

HOWREY SIMON ARNOLD & WHITE, LLP 750 Bering Drive Houston, Texas 77057-2198 (713) 787-1400

Date:

August 19, 2004

Page 1 of 2

						.=		Page I of A	
Form P	TO-144	9 (modified)		Atty. Docket N			Serial N		
11.4.5	1.44	AL DS & EV 47	. A = 11 49	12740.0249.NI	US01		09/781,6	597	
		d Publications for	••	Applicant Hagan P. Bayl	ey, et a	3 4.		REC	
INF	ORMATIC	ON DISCLOSURE S	IAIEMENI	Filing Date:	 		Group:	AUG 1	
	(Use s	everal sheets if necessa	(עוני)	February 12, 2	001		1641	(IETIOE or	
U.	S. Patent	Documents	Foreig	n Patent Document				Other Art	
	See F	Page I		See Page 1			See Page 1		
			U.S. Pa	tent Docume	ents				
Exam.	Ref. Des.	Document Number	Date	Name		lass	Sub Class	Filing Date of App.	
	A1	5,234,566	08/10/93	Osman et al.	7	204	403	08/17/89	
	A2	5,443,955	08/22/95	Cornell et al.	4	135	7.21	01/29/90	
	A3	5,795,782	08/18/98	Church et al.	4	136	2	03/17/95	
	A4	0,094,526 A1	07/18/02	Bayley et al.	4	135	6	02/12/01	
	A5	5,368,712 A	11/29/94	Tomich John et al.					
To the property			oreign l	Patent Docum	nent	S			
Exam. Init.	Ref. Des.	Document Number	Date	Country	Clas	SS	Sub Class	Translation Yes/No	
	BI	W0 99 05167 A	02/04/99	WIPO					
	B2	W0 96 20688 A	07/11/96	WIPO					
	B 3	W0 97 20203 A	06/05/97	WIPO					
	B4								
	B5								
(Other .	Art (Includir	ng Autho	or, Title, Date	Per	tine	nt Page	es, Etc.)	
Exam. Init.	Ref. Des.	Citation							
-	CI	Thomas Ferenci and King-Sang Lee; Department of Microbiology, University of Sydney; "Channel Architecture in Maltoporin: Dominance Studies lamb Mutations Influencing Maltodextrin Binding Provide Evidence for Independent Selectivity Filters in Each Subunit"; June 13, 1988; 7 pages.							
	C2	Charles A. Roessner and Garret M. Ihler; Department of Medical Biochemistry and Genetics, Texas A&M College of Medicine; "Formation of Transmembrane Channels in Liposomes during injection of DNA"; June 3, 1985; ppgs. 386-390.							

EXAMINER: DATE CONSIDERED:		
	Examiner:	DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

10:32

Page 2 of 2

Form PTO-1449 (modified)		Atty. Docket No. 12740.0249.NPUS01	Serial No. 09/781,697	
List of Patents and Publications for	Applicant's	Applicant Hagan P. Bayley, et al.		
INFORMATION DISCLOSURE STATEMENT (Use several abects if necessary)				
		Filing Date: February 12, 2001	Group: 1641	
U.S. Patent Documents	Foreign i	Patent Documents	Other Art	
See Page 1		See Page 1	See Page 1	

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation				
	C 3	Orit Braha, Barbara Walker, Stephen Cheley, John Kasianowicz, Langzhou Song, J. Eric Gouaux and Hagan Bayley; "Designed protein pores as components for biosenors"; April 25, 1997; ppgs. 497-505.				
	C4	Cornell E.A.: "The gramicidin-based biosensor: a functional nano-machine" NOVARTIS FOUNDATION SYMPOSIUM, vol. 225, 1999, pages 231-254, XP001052820 Chichester.				
	C5	Bayley: "Designed membrane channels and pores" CURRENT OPINION IN BIOTECHNOLOGY, vol. 10. 1999, pages 94-103, XP001058234.				
	C6	Boehmer, Volker: "Calixarenes macrocycles with (almost) unlimited possibilities" ANGEW, CHEM., INT. ED. ENGL. (1995). 34(7), 713-45, XP002188229				
	C7	Movileanu L. Et al.; "Detecting protein analytes that modulate transmembrane movement of a polymer chain within a single protein pore." NATURE BVIOTECHNOLOGY, (2000 OCT) 18 (10) 1091-5.; XP002188230				
	C8	Van Der Goot E.A.: "Sensing proteins outside of the box" NATURE BIOTECHNOLOGY, vol. 18, 18 October 2000 (2000-10-18), page 1037 XP002188231				
	C9	Howorka: "A protein pore with a single polymer chain tethered within the lumen" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 122, no. 11, 22 March 2000 (2000-03-22), pages 2411-2416, XP002188232 DC US				
	C10	Search Report for application PCT/US01/04482, European Patent Office, Feb. 2, 2002, PCT				

		-
EXAMINER:	DATE CONSIDERED:	

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.